

# AGENDA FOR 2<sup>nd</sup> ANNUAL CRG CONFERENCE

## Unveiling Genome-Wide DNA Variation in 15 Diverse Mouse Strains: Using Mouse Genetics and Genomics to Understand Human Disease

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### Day 1: Tuesday, September 26, 2005

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8:00 – 9:00 am	<b>Registration</b>
9:00 – 9:15 am	<b>Welcome and Overview Introduction and History</b> <i>Samuel Wilson, M.D.</i> NIEHS
9:15 – 11:55 am	<b>Session 1: Approaches to Understanding Genetic Susceptibility to Environmental Carcinogenesis</b> <b>Moderator:</b> <i>Doug Bell, Ph.D.</i> NIEHS
9:15 – 9:35 am	<b>Introduction to Gene-Environment Interactions in Cancer</b> <i>Doug Bell, Ph.D.</i> NIEHS
9:35 – 10:25 am	<b>Gene-Environment Interaction in a Mouse Model for Susceptibility to Carcinogen Induced DNA</b> <i>Jef French, Ph.D.</i> NIEHS
10:25 – 10:40 am	Break
10:40 – 11:30 am	<b>Genetic Architecture of Carcinogen-Induced Colorectal Cancer</b> <i>David Threadgill, Ph.D.</i> University of North Carolina at Chapel Hill
11:30 – 1:30 pm	Lunch
1:30 – 4:45 pm	<b>Session 2: Gene-Environment Interactions in Parkinson's Disease</b> <b>Moderator:</b> <i>Honglei Chen, M.D., Ph.D.</i> NIEHS
1:30 – 1:50 pm	<b>Epidemiology of Genes, Environment, and Neurological Disorders</b> <i>Honglei Chen, M.D., Ph.D.</i> NIEHS
1:50 – 2:40 pm	<b>Gene-Environment Interactions in Human Parkinson's Disease</b> <i>J. William Langston, M.D.</i> Parkinson's Institute
2:40 – 3:30 pm	<b>Gene-Environment Interactions in Mouse Models of Parkinson's Disease</b> <i>Amy Manning-Bog, Ph.D.</i> Parkinson's Institute

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3:30 – 3:45 pm	Break
3:45 – 4:55 pm	<b>SNPs, Microarrays, and the Use of Mouse Reference Panels for Collaborative Research</b> <i>Robert W. Williams, Ph.D.</i> <i>University of Tennessee Health Science Center</i>
4:55 pm	Adjourn

## Day 2: Wednesday, September 27, 2005

9:00 am – 12:30 pm	<b>Session 3: Mouse Genome and SNP Discovery</b> <b>Moderator:</b> <i>Ted Choi, Ph.D.</i> <i>Predictive Biology, Inc.</i>
9:00 – 9:10 am	<b>Overview of Mouse Genomics</b> <i>Ted Choi, Ph.D.</i> <i>Predictive Biology, Inc.</i>
9:10 – 9:55 am	<b>Analysis of Large-Scale Variation and Segmental Duplication in the Mouse Genome</b> <i>Deanna M. Church, Ph.D.</i> <i>National Center for Biotechnology Information</i>
9:55 – 10:40 am	<b>SNP Discovery Across 15 Mouse Strains</b> <i>Kelly Frazer, Ph.D.</i> <i>Perlegen Sciences</i>
10:40 – 10:50 am	Break
10:50 – 11:35 am	<b>Haplotype Analysis of the Mouse Genome</b> <i>Mark Daly, Ph.D.</i> <i>University of Massachusetts General Hospital</i>
11:35 – 12:20 pm	<b>Whole Genome Association in Inbred Mouse Strains</b> <i>Eleazar Eskin, Ph.D.</i> <i>University of California at San Diego</i>
12:20 – 1:3 pm	Lunch
1:30 – 4:30 pm	<b>Session 4: Interactive Session</b>
1:30 – 2:00 pm	<b>Haploview</b> <i>Mark Daly, Ph.D.</i> <i>University of Massachusetts General Hospital</i>
2:00 – 2:30 pm	<b>Mouse Phenome Association Database</b> <i>Eleazar Eskin, Ph.D.</i> <i>University of California at San Diego</i>
2:30 – 4:30 pm	<b>Hands-On Computer Session</b>
4:30 pm	Adjourn